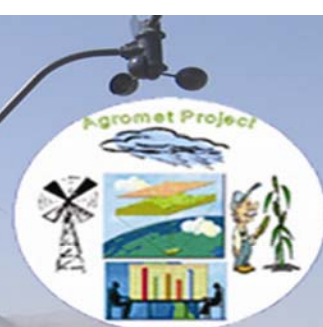


The Afghanistan Agrometeorological Monthly Bulletin



Issue No:46

December 2008



Nangarhar



Kabul

The Agromet Project of USGS, supported by the US Agency for International Development (USAID), is working together with the Ministry of Agriculture and irrigation and the Afghan Meteorological Authority (AMA) of Ministry of Transport (MoT).

Agromet Network



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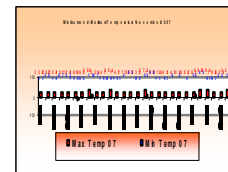
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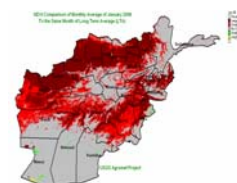
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Summary

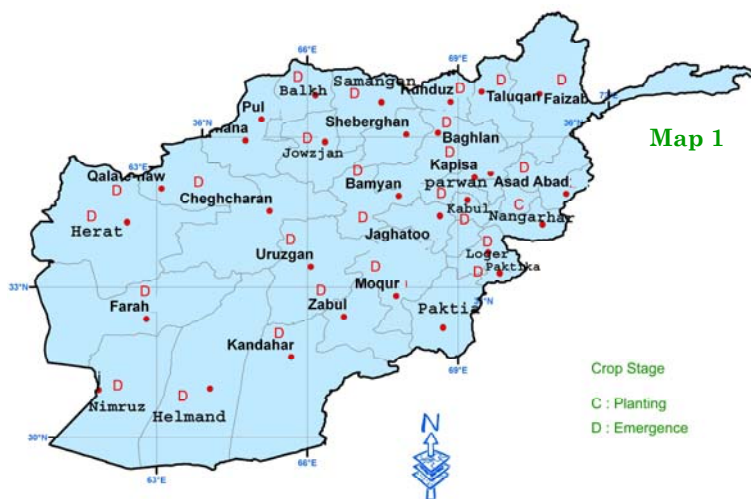
Zone	Province	District	Station	Wheat Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Emergence	Not visible	Frost damaged wheat areas
		Paghman	Paghman	Emergence	Not visible	Frost damaged wheat areas
		Sarubi	Sarubi	Planting	Not visible	Not seen
	Panjsher	Dara	Dara	Emergence	Not visible	Not seen
		Dashtak	Dashtak	Emergence	Not visible	Not seen
	Parwan	Ghorband	Syagerd	Emergence	Not visible	Not seen
		Charikar	Charikar	Emergence	Not visible	Not seen
	Kapisa	Mahmoodraqi	Mahmoodraqi	Emergence	Not visible	Not seen
		Kohistan	Kohistan	Emergence	Not visible	Not seen
	Wardak	Chak	Chak	Dormancy	Dormancy	Not seen
		Jaghato	Jaghato	Dormancy	Dormancy	Not seen
East Central	Bamyan	Central Bamyan	Bamyan	Emergence	Not visible	Not seen
		Yakawlang	Yakawlang	Emergence	Not visible	Not seen
		Panjab	Panjab	Emergence	Not visible	Not seen
Eastern	Nangarhar	Agam	Agam	Planting	Not visible	Not seen
		Batikt	Ghaziabad	Planting	Not visible	Not seen
		Jalalabad	Sheshembagh	Planting	Not visible	Not seen
		Jalalabad	Farm Jadeed	Planting	Not visible	Not seen
	Konar	Asmar	Asmar	Emergence	Not visible	Not seen
		Asadabad	Asadabad	Emergence	Not visible	Not seen
	Laghman	Mihtarlam	Mihtarlam	Emergence	Not visible	Not seen
Northeast	Takhar	Bangi	Bangi	Planting	Not visible	Not seen
		Taluqan	Taluqan	Planting	Not visible	Not seen
	Kunduz	Imam Sahib	Imam Sahib	Emergence	Not visible	Not seen
		Aqtipa	Aqtipa	Emergence	Not visible	Not seen
		Chardara	Chardara	Emergence	Not visible	Not seen
		Kunduz	Kunduz	Emergence	Not visible	Not seen
	Baghlan	Baghlan Jadid	Pozashan	Emergence	Not visible	Not seen
	Badakhshan	Faizabad	Faizabad	Emergence	Not visible	Not seen

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat Crop Stage	Crop Condition	Adverse Factor
South Eastern	Khost	Khost	Khost	Planting	Not visible	Not seen
		Shimal	Shimal	Planting	Not visible	Not seen
		Ali Sher	Ali Sher	Planting	Not visible	Not seen
	Paktai	Gardiz	Rohani Baba	Emergence	Not visible	Not seen
		Gardiz	Tera	Emergence	Not visible	Not seen
	Paktika	Urgon	Urgon	Emergence	Not visible	Not seen
		Sharana	Sharana	Emergence	Not visible	Not seen
		Khairkot	Khairkot	Emergence	Not visible	Not seen
	Ghazni	Muqur	Muqur	Dormancy	Dormancy	Not seen
		Bande Sardi	Bande Sardi	Dormancy	Dormancy	Not seen
Southern	Nimroz	Zaranj	Zaranj	Emergence	Not visible	Due to less amount of rainfall, lack of water in Khashrod River, low water in Hilmand River for irrigation Agricultural cultivation is not don without in some limited areas
	Kandahar	Kandahar	Kandahar	Emergence	Not visible	Not seen
	Zabul	Qalat	Qalat	Emergence	Not visible	Not seen
	Urozgan	Tarinkot	Tarinkot	Emergence	Not visible	Not seen
	Hilmand	Nad Ali	Nad Ali	Emergence	Not visible	Not seen
		Greshk	Greshk	Emergence	Not visible	Not seen
		Nawa	Nawa	Emergence	Not visible	Not seen
		Lashkargah	Bolan	Emergence	Not visible	Not seen
North	Balkh	Dihdadi	Dihdadi	Emergence	Not visible	Not seen
		Nahrishahi	Nahrishahi	Emergence	Not visible	Not seen
	Jawzjan	Sheberghan	Sheberghan	Emergence	Not visible	Not seen
		Darzab	Darzab	Emergence	Not visible	Not seen
	Saripul	Saripul	Saripul	Emergence	Not visible	Not seen
		Sozmaqala	Sozmaqala	Emergence	Not visible	Not seen
	Faryab	Maimana	Maimana	Emergence	Not visible	Not seen
	Samangan	Aibak	Aibak	Emergence	Not visible	Not seen
		Dara Yosuf	Dara Yosuf	Emergence	Not visible	Not seen
Western	Badghis	Qalainow	Qalainow	Emergence	Not visible	Not seen
		Muqur	Muqur	Emergence	Not visible	Not seen
	Ghor	Chaghcharan	Chaghcharan	Emergence	Not visible	Not seen
	Hirat	Shindand	Shindand	Emergence	Not visible	Not seen
		Hirat	Farm Urdokhan	Emergence	Not visible	Not seen
	Farah	Farah	Farah	Emergence	Not visible	Not seen

Crop Stage, Crop Condition and Adverse Factor

Wheat Crop Stage - December 2008



Wheat Crop Condition - December 2008



Wheat - Adverse Factor December 2008



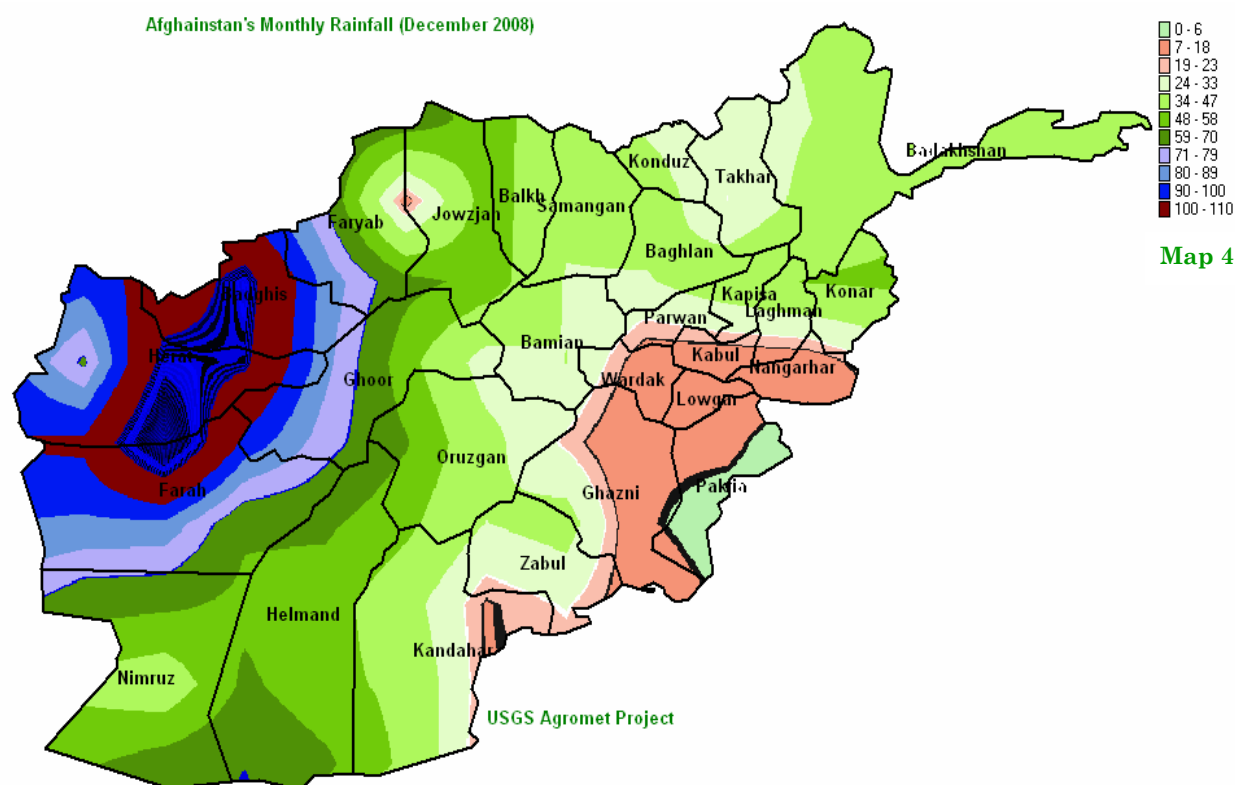
Crop Stage, Crop Condition and Adverse Factor

Rainfall for the month of December 2008 was lower than the same month of last year in most parts of the country.

Comparison of rainfall data for the month of December 2008 with the same month in 2007 (chart 1) shows significant decrease of rainfall during the month of December 2008 compared to the same month of last year in most parts of the country except Baghlan, Darulaman, Farah, Ghaziabad and Kabul where the rainfall had an increase during the month of December 2008 over the same month of last year. The percentage \pm of rainfall shown in next page (table 1).

Comparison of rainfall data for the month of December 2008 with the same month of long term average (chart 2) shows significant decrease in rainfall during the month of December 2008 compared to the same month of long term average in most parts of the country except Farah, Gardiz, Ghaziabad and Kandahar where the rainfall had an increase during the month of December 2008 over the same month of long term average.

The percentage \pm of rainfall shown in next page (table 2).

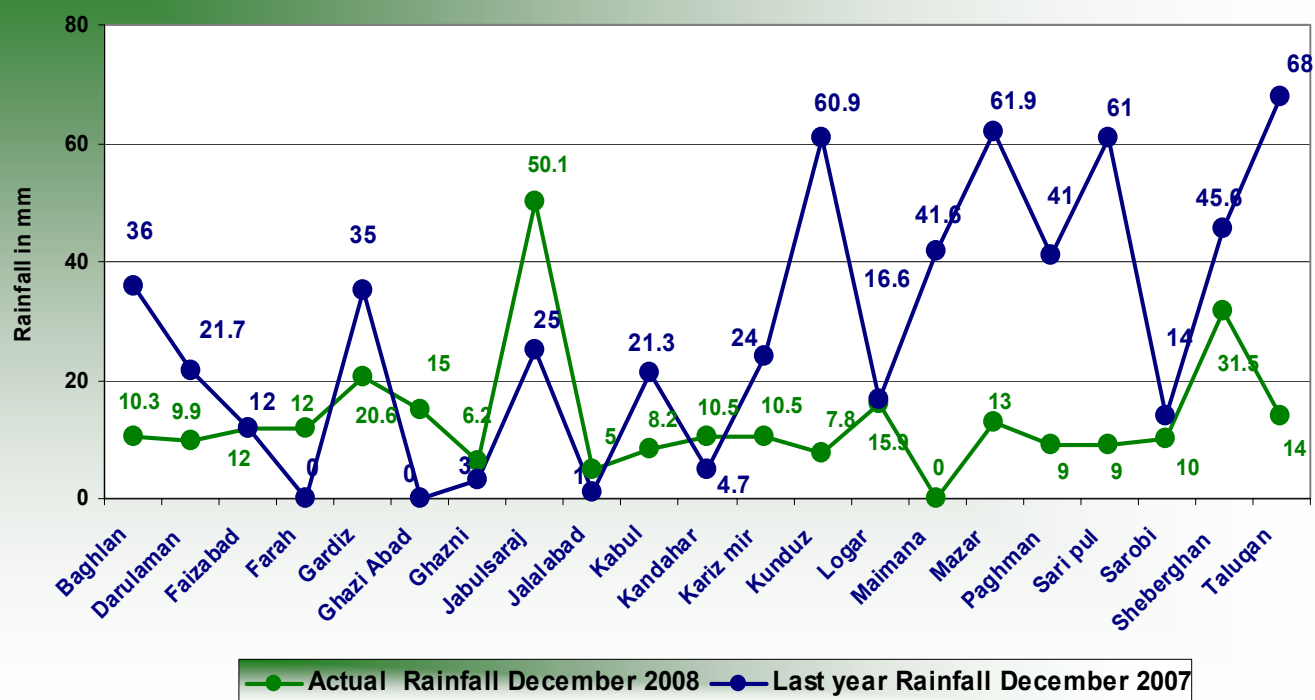


Map (4) shows distribution of rainfall for the month of December 2008 around the country. As map (4) shows much amount of rainfall occurred in the Western region during the month of December 2008, the Northern and some parts of the Central Highlands and

Southwestern region also experienced good rainfall, the Eastern region received less amount of rainfall during the month of December 2008.

Rainfall Graphs for the Month of December 2008

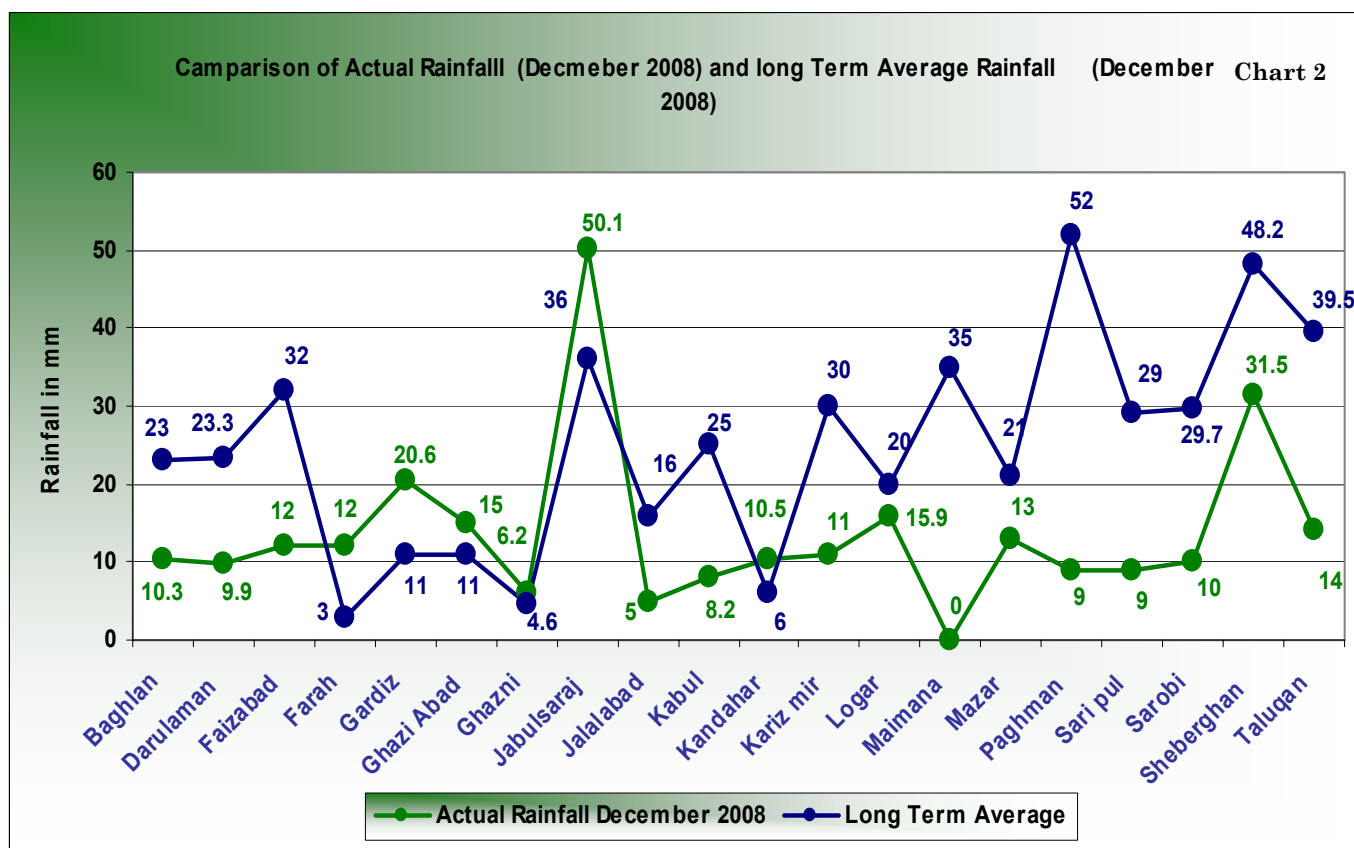
Comparison of Actual Rainfall (December 2008) and last year Monthly Rainfall (December 2007) Chart 1



Name	Actual Rainfall December 2008	Last year Rainfall December 2007
Baghlan	10.3	36
Darulaman	9.9	21.7
Faizabad	12	12
Farah	12	0
Gardiz	20.6	35
Ghazi Abad	15	0
Ghazni	6.2	3
Jabulsaraj	50.1	25
Jalalabad	5	1
Kabul	8.2	21.3
Kandahar	10.5	4.7
Kariz mir	10.5	24
Kunduz	7.8	60.9
Logar	15.9	16.6
Maimana	0	41.6
Mazar	13	61.9
Paghman	9	41
Sari pul	9	61
Sarobi	10	14
Sheberghan	31.5	45.6
Taluqan	14	68

Table 1

Rainfall Graphs for the Month of December 2008



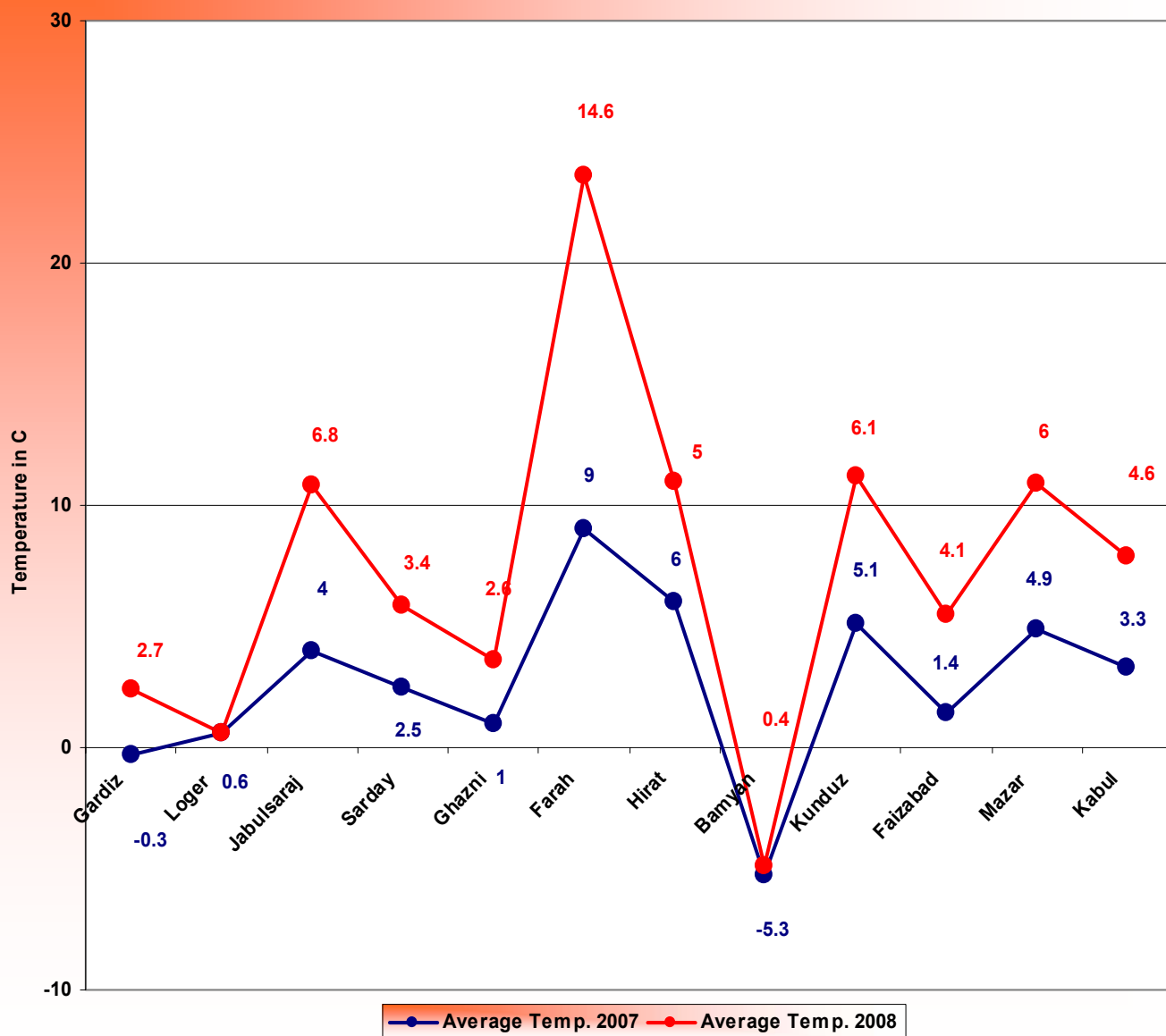
Name	Actual Rainfall December 2008	Long Term Average
Baghlan	10.3	23
Darulaman	9.9	23.3
Faizabad	12	32
Farah	12	3
Gardiz	20.6	11
Ghazi Abad	15	11
Ghazni	6.2	4.6
Jabulsaraj	50.1	36
Jalalabad	5	16
Kabul	8.2	25
Kandahar	10.5	6
Kariz mir	11	30
Logar	15.9	20
Maimana	0	35
Mazar	13	21
Paghman	9	52
Sari pul	9	29
Sarobi	10	29.7
Sheberghan	31.5	48.2
Taluqan	14	39.5

Table 2

Average Temperature for the Month of December 2008

Average Temperature December 2008 Compared with the same Month of 2007

Chart 3



Temperature for the month of December 2008 was higher significantly compared to the same month of December 2007 across the country.

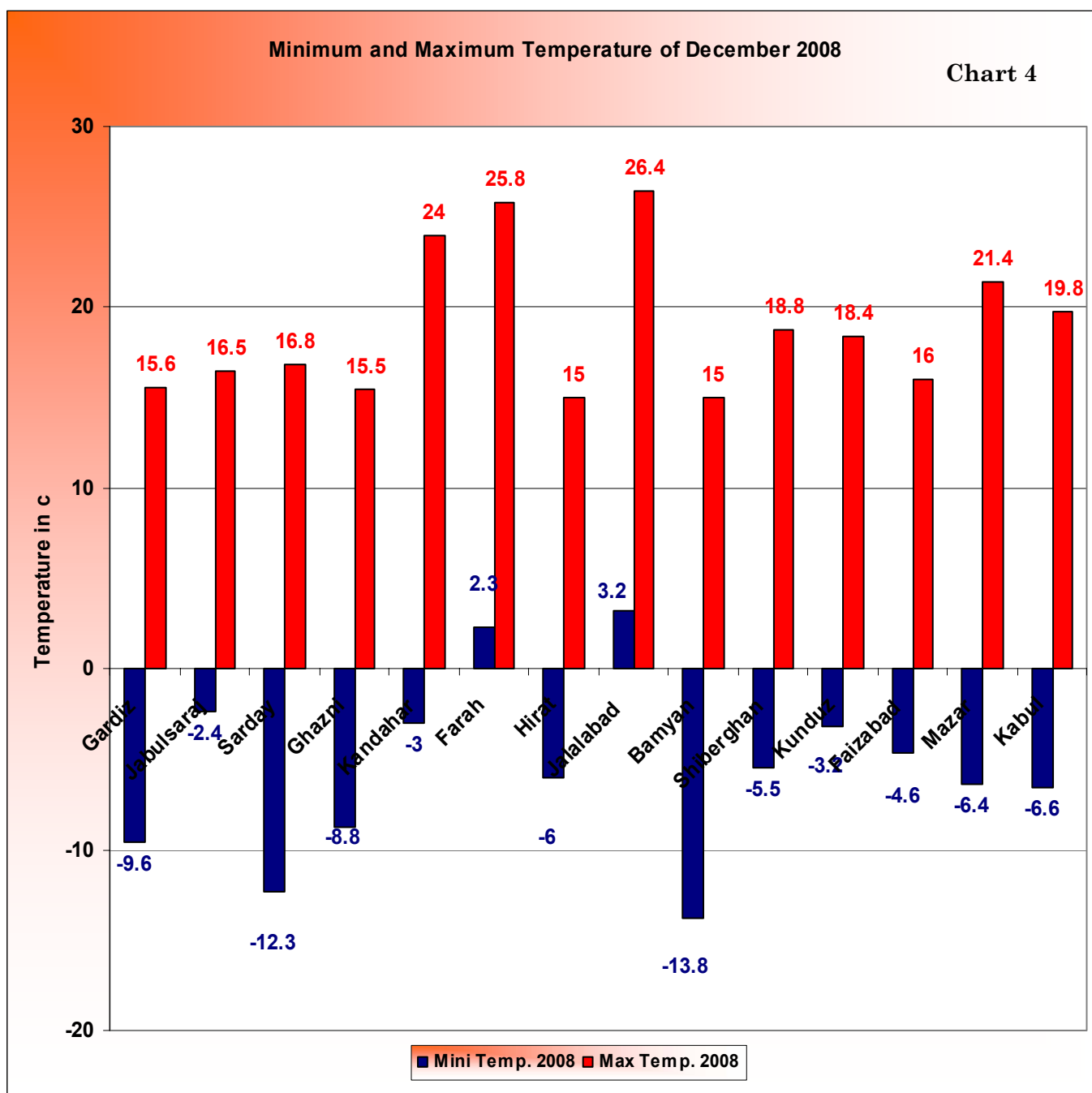
Temperature for the month of December 2008 significantly was higher compared to the same month of December 2007 across the country.

Comparison of temperature data for the month of December 2008 with the same month

of last year (chart 3) shows significant increase of temperature during the month of December 2008 over the same month of last year around the country.

Temperature was 2 to 4 ° C higher than the same month of last year.

Temperature for the Month of December 2008

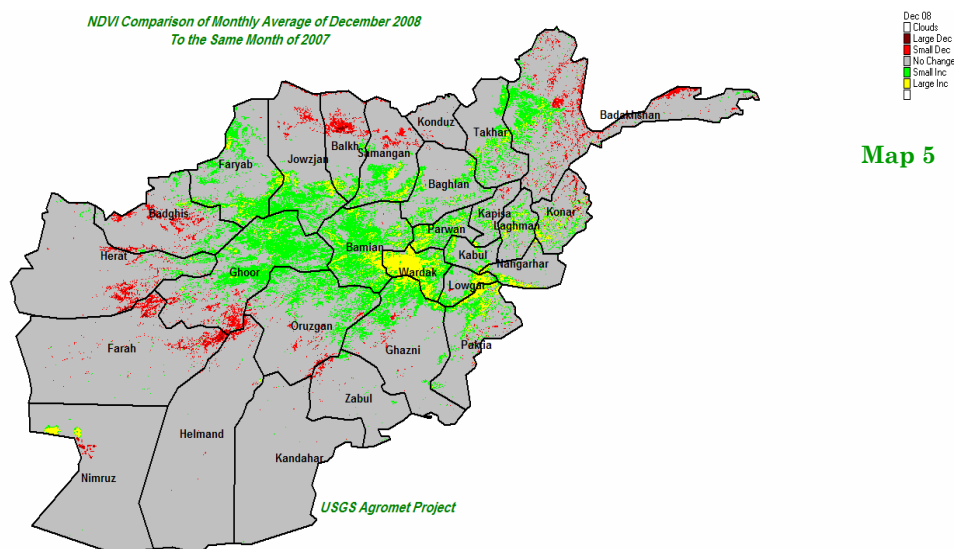


Jalalabad with 26.4° C was the warmest spot of the country.

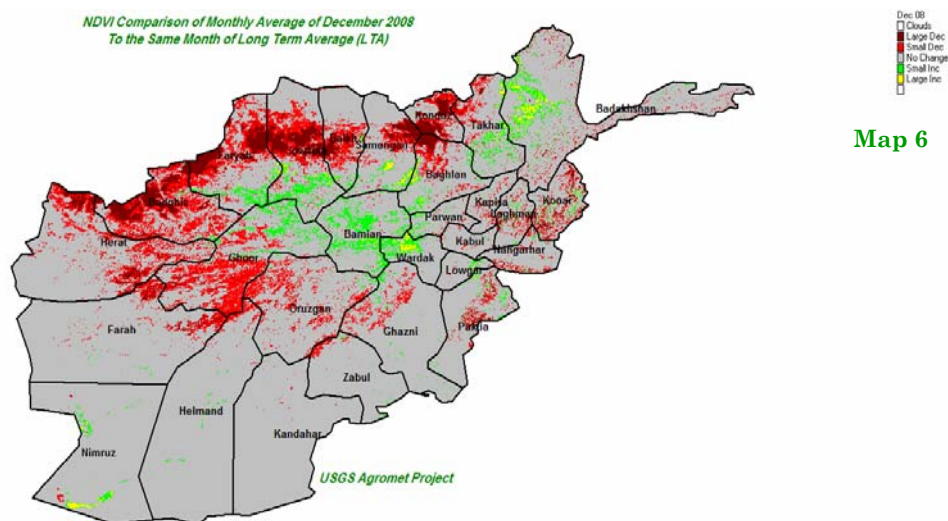
Char (4) shows maximum and minimum temperature for the month of December 2008 around the country. As chart (4) shows Jalalabad with 26.4 ° C was the

Warmest spot during the month of December 2008 and Bamyan with – 13.4 ° C experienced extreme cold weather.

Comparison of NDVI December 2008



Vegetation Index: Comparison to Last Year



Vegetation Index: Comparison to Long Term Average

NDVI: December 2008

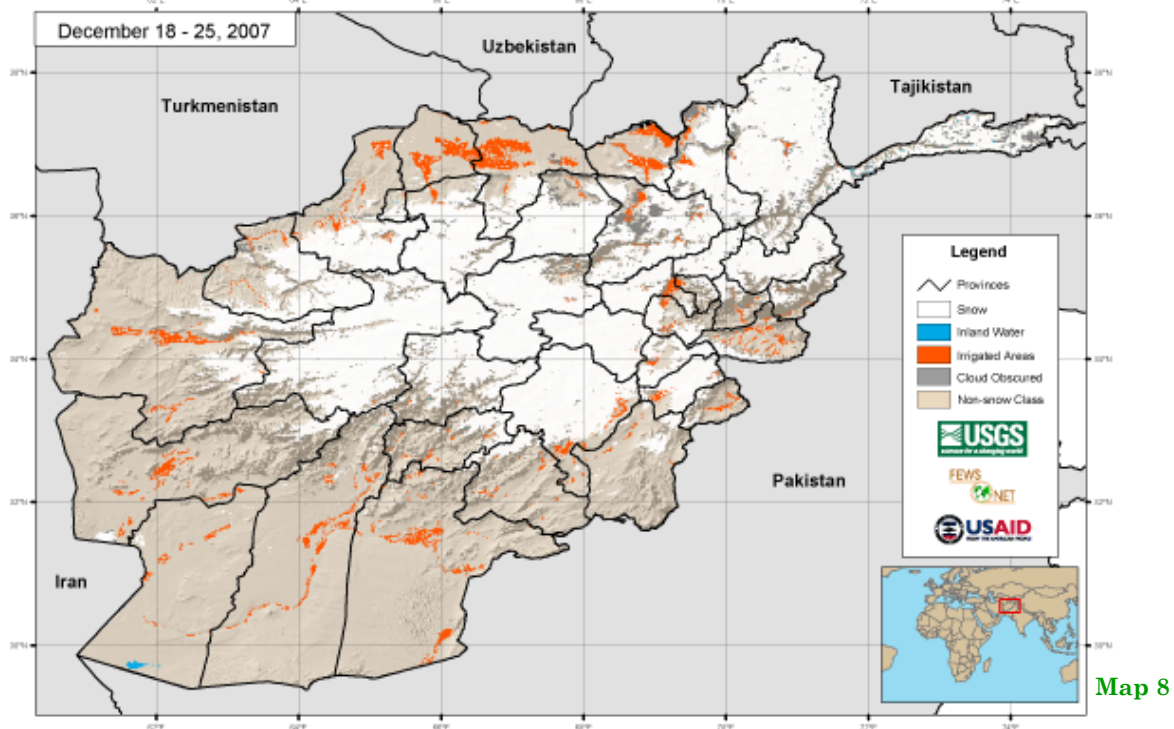
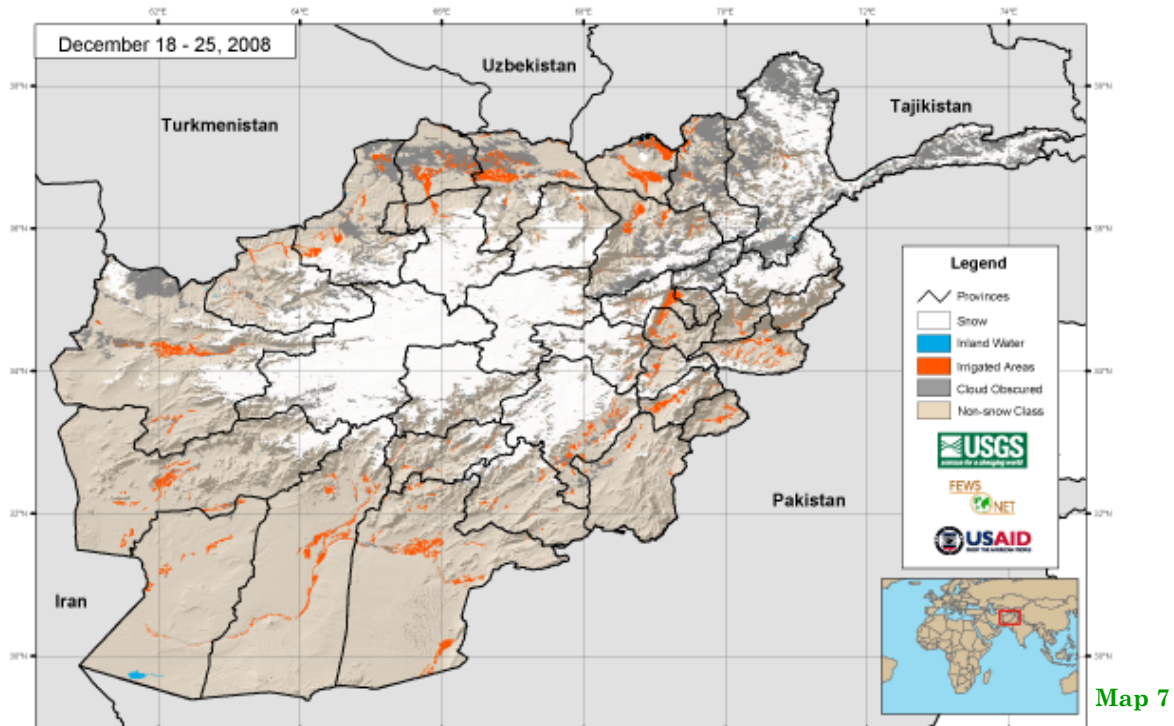
Comparison monthly average of NDVI for the month of December 2008 with same month of Last year (map 5) shows small increase occurred in NDVI value in the Central Highlands and neighboring areas, limited area in the Northeastern and Eastern regions during the month of December 2008 compared to the same month of last year, and small decrease occurred in NDVI in limited areas in the Western and Northern flat area. There is no change in NDVI value in the remaining regions of the country during the month of December 2008 over the same month in 2007. Comparison monthly average of NDVI for the month of December 2008 with the same month of long term average (map 6) shows

large decrease of NDVI in most parts in the Northern region and Northwestern regions during the month of December 2008 over the same month of long term average, and small decrease occurred in NDVI in the Western mountainous areas too. Small increases occurred in NDVI value in the Central Highlands and some parts of the Northeastern region during the month of December 2008 compared to the same month of long term average.

There is no change of NDVI in the remaining regions of the country during the month of December 2008 over the same month of long term average.

Comparison of Snow Extent

MODIS 8-day Snow Cover Extent - Current Period 2008 vs 2007

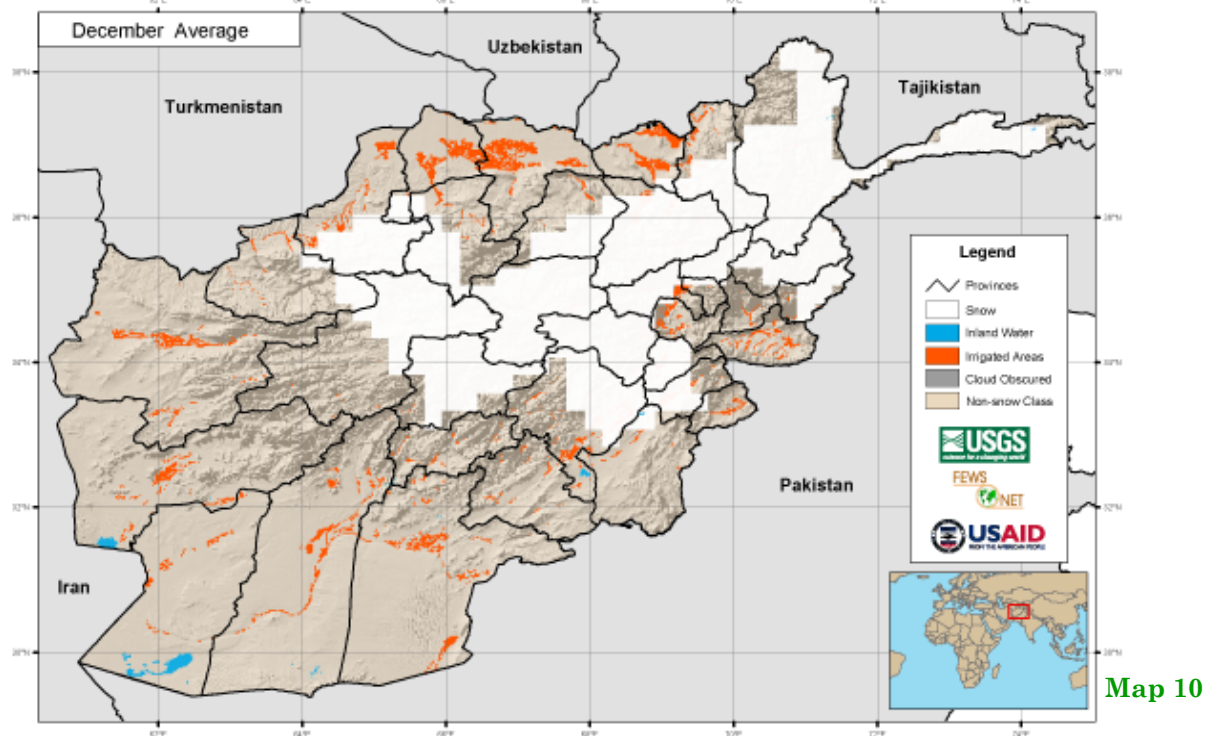
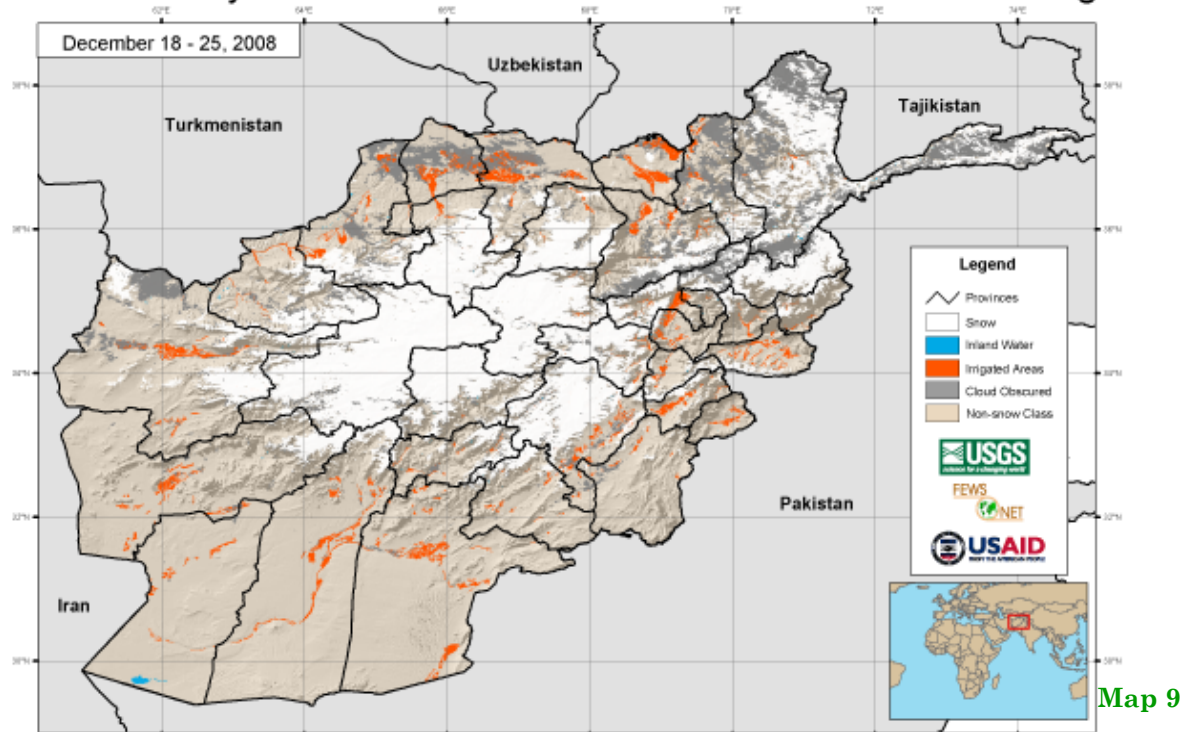


Comparison of snow extent for the period of (18 – 25) December 2008 with the same period in 2007 (map7 - 8) shows small decrease in snow extent during the

month of December compared to the same period in 2007 in the snow coverage area.

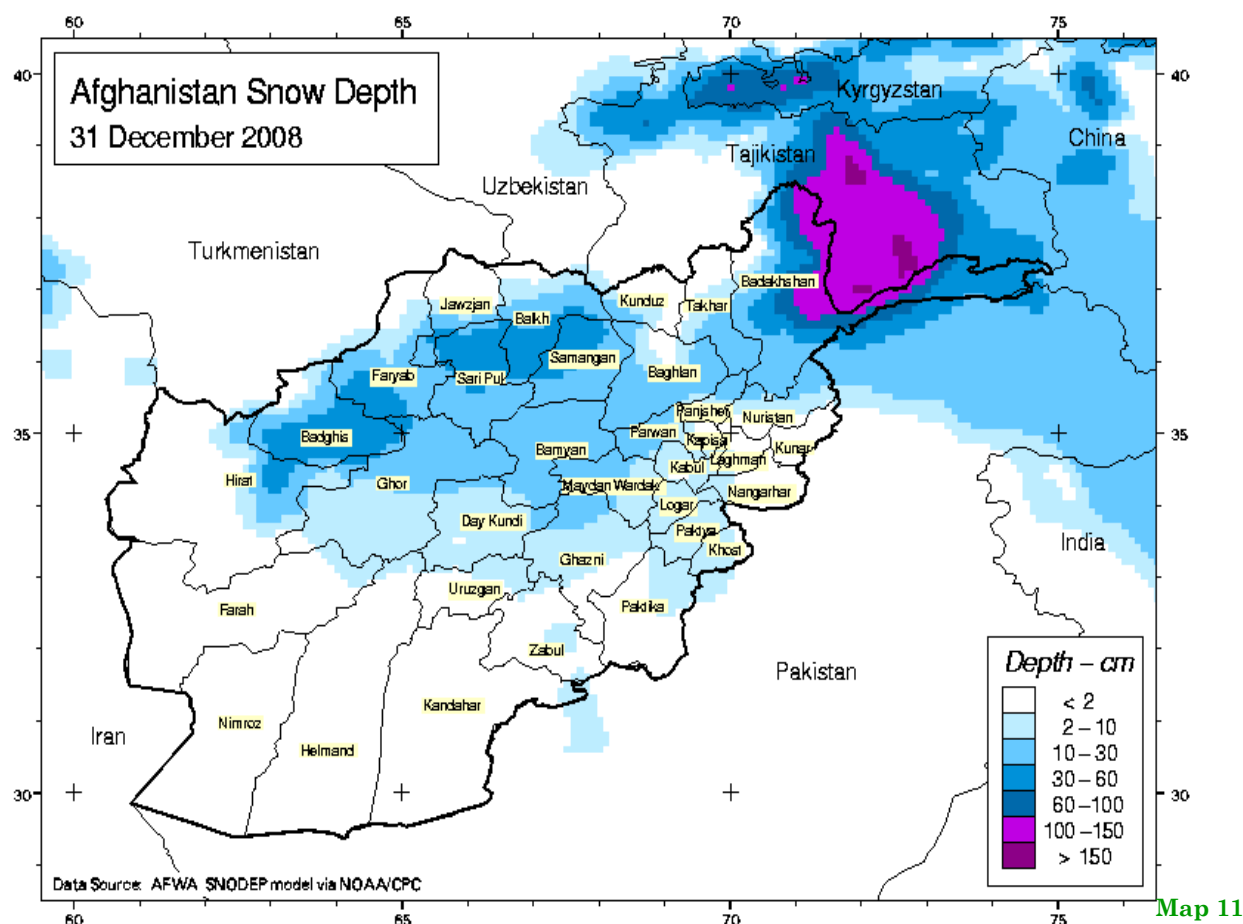
Comparison of Snow Extent

MODIS 8-day Snow Cover Extent - Current vs. Historical Average



Comparison of snow extent for the month of December 2008 compared to the same month of long term average (map 9 – 10) shows a decrease in snow extent during the month of

Afghanistan Snow Depth for the month of December 2008



Map (11) shows the snow depth for end of December 2008 around the country. As map (11) shows the snow depth recorded 100 to 150 cm for the Northeastern regions and 30 to 60 cm

for the Northwestern and Northern regions and 10 to 30 cm for the Central Highlands and neighboring areas.

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<http://afghanistan.cr.usgs.gov/agro.asp>